



#18

PTO/SB/08A (10-01)

Approved for use through 10/31/2002.OMB 0651-0031

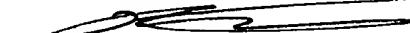
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				C mplete if Known	
				Application Number	09/585,645
				Filing Date	June 1, 2000
				First Named Inventor	Huda Y. Zoghbi
				Art Unit	1633
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	HO-P01899US2

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
cd	-	CHEN, P., JOHNSON, J.E. et al., The role of Math 1 in inner ear development: Uncoupling the establishment of the sensory primordium from hair cell fate determination, Development, 2002, pp. 2495-2505, vol. 129.		
	-	KANZAKI, S., KAWAMOTO, K. et al., From Gene Identification to Gene Therapy, Audiol. Neurotol., 2002, pp. 161-164, vol. 7.		
	-	KAWAMOTO K., OH, S.-H., et al., The Functional and Structural Outcome of Inner Ear Gene Transfer via the Vestibular and Cochlear Fluids in Mice, Molecular Therapy, December 2001, vol. 4(6).		
	-	ZHENG, J.L. AND GAO, W.-Q., Overexpression of Math1 induces robust production of extra hair cells in postnatal rat inner ears, Nature Neuroscience, June 2000, pp. 580-586, vol. 3(6).		

Examiner Signature		Date Considered	5/15/03
--------------------	---	-----------------	---------

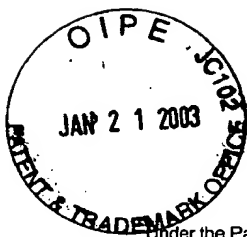
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

RECEIVED

SEP 09 2002

TECH CENTER 1600/2900



#21

PTO/SB/08A (10-01)

Approved for use through 10/31/2002.OMB 0651-0031

U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/585,645
				Filing Date	June 1, 2000
				First Named Inventor	Huda Y. Zoghbi
				Art Unit	1633
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	HO-P01899US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

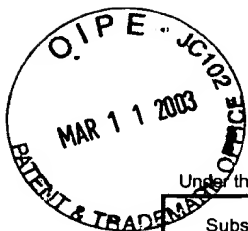
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CA	✓	Ho, Alan, et al.; Synthetic Protein Transduction Domains: Enhanced Transduction Potential <i>in Vitro</i> and <i>in Vivo</i> ; Cancer Research, Vol. 61, pp 474 - 477, January 15, 2001	
	✓	CB Jero, Jussi, et al.; A surgical approach appropriate for targeted cochlear gene therapy in the mouse; Hearing Research, Vol. 151, pp 106 - 114, 2001	
	✓	CC Jero, Jussi, et al.; Cochlear Gene Delivery through an Intact Round Window membrane in Mouse; Human Gene Therapy; Vol. 12, pp 539 - 548, March 20, 2001	
	✓	CD Lalwani, Anil K., et al.; Expression of Adeno-Associated Virus Integrated Transgene Within the Mammalian Vestibular Organs; Am J Otol 19:390 - 395, 1998	
	✓	CE Staecker, Hinrich, et al.; Brain-derived neurotrophic factor gene therapy prevents spiral ganglion degeneration after hair cell loss; Otolaryngol Head Neck Surg 1998; 119:7 - 13	
	✓	CF Sherman, Michael P., et al.; HIV-1 Vpr Displays Natural Protein-Transducing Properties: Implications for Viral Pathogenesis; Virology 302, 95 - 105 (2002)	
	✓	CG Ford, K.G., et al.; Protein transduction: an alternative to genetic intervention? Gene Therapy (2001) 8, 1 - 4	
	✓	CH Morris, May C., et al.; A peptide carrier for the delivery of biologically active proteins into mammalian cells; Nature Biotechnology, Vol. 19, pp 1173 - 1176, December 2001	
	✓	CI Stöver, Timo, et al.; Cochlear gene transfer: round window versus cochleostomy inoculation; Hearing Research 136 (1999) 124 - 130	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	5/15/03
-----------------------	--	--------------------	---------

25253445.1



#24

PTO/SB/08A (10-01)

Approved for use through 10/31/2002.OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/585,645
				Filing Date	June 1, 2000
				First Named Inventor	Huda Y. Zoghbi
				Art Unit	1633
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	HO-P01899US2

MAR 14 2003
TECH CENTER 1600/2900

RECEIVED

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CA	✓	Ho, Alan, et al.; Synthetic Protein Transduction Domains: Enhanced Transduction Potential <i>in Vitro</i> and <i>in Vivo</i> ; Cancer Research, Vol. 61, pp 474 - 477, January 15, 2001	
CB	✓	Jero, Jussi, et al.; A surgical approach appropriate for targeted cochlear gene therapy in the mouse; Hearing Research, Vol. 151, pp 106 - 114, 2001	
CC	✓	Jero, Jussi, et al.; Cochlear Gene Delivery through an Intact Round Window membrane in Mouse; Human Gene Therapy; Vol. 12, pp 539 - 548, March 20, 2001	
CD		Lalwani, Anil K., et al.; Expression of Adeno-Associated Virus Integrated Transgene Within the Mammalian Vestibular Organs; Am J Otol 19:390 - 395, 1998	
CE	✓	Staecker, Hinrich, et al.; Brain-derived neurotrophic factor gene therapy prevents spiral ganglion degeneration after hair cell loss; Otolaryngol Head Neck Surg 1998; 119:7 - 13	
CF		Sherman, Michael P., et al.; HIV-1 Vpr Displays Natural Protein-Transducing Properties: Implications for Viral Pathogenesis; Virology 302, 95 - 105 (2002)	
CG		Ford, K.G., et al.; Protein transduction: an alternative to genetic intervention? Gene Therapy (2001) 8, 1 - 4	
CH		Morris, May C., et al.; A peptide carrier for the delivery of biologically active proteins into mammalian cells; Nature Biotechnology, Vol. 19, pp 1173 - 1176, December 2001	
CI	✓	Stöver, Timo, et al.; Cochlear gene transfer: round window versus cochleostomy inoculation; Hearing Research 136 (1999) 124 - 130	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	5/15/03
-----------------------	--	--------------------	---------